

IN THE SPECIFICATION:

On page 1, please replace the paragraph as follows:

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01 This application is related to co-pending application Serial No. 09/887,905 entitled "CLOCK GENERATION SYSTEMS AND METHODS," filed concurrently herewith and commonly assigned, the content of which is hereby incorporated by reference.

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On page 12, please replace the paragraph as follows:

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02 Next, the mixed signal interface is tested (step 70). The mixed signal interface can be tested in accordance with the teaching of a co-pending, commonly owned application entitled "SYSTEMS AND METHODS FOR SELF-CALIBRATION TESTING", filed concurrently herewith and having Application Serial No. 09/930,828, the content of which is incorporated-by-reference herewith. As taught therein, the chip has hot-electron sensors (deep well diodes), hot electron generators (small ring oscillators), temperature sensors (simple diodes with metallization to screen out the light), and heaters (simple polysilicon resistors placed over a diode and transistors). A high precision analog to digital converter (in one implementation, a 12 bit delta-sigma ADC) captures calibration data based in part on voltage variations or temperature variations, among others, and stores the calibration data in the embedded memory for subsequent processing.

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